DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0007044
CSBRG-0007-00(044)
Meriwether County
GDOT District 3 - Thomaston
SR 85 Bridge Replacement over CS 811/
Lane Street in Manchester

OFFICE Design Policy & Support

DATE 1/30/2017

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED CONCEPT REPORT**

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Monica Flournoy, State Materials and Testing Administrator
Patrick Allen, State Utilities Engineer
Richard Cobb, Statewide Location Bureau Chief
Andy Casey, State Roadway Design Engineer
Attn: Joshua Taylor, Design Group Manager
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Scott Parker, District Utilities Engineer
Derrick Cameron, Project Manager
BOARD MEMBER - 3rd Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type:	Bridge Replacement	P.I. Number:	0007044
GDOT District:	District 3	County:	Meriwether
Federal Route Number:	N/A	State Route Number:	85
	Project Number:	*CSBRG-0007-00(044)*	

This project proposes to replace the bridge on SR 85 over Lane Street/CS 811 in the city of Manchester in Meriwether County.

Submitted for approval:

C. Andy Cuny — State Roadway Design Engineer — Date: 7/25/16

Albert Shelby — State Program Delivery Engineer — Date: 8/15/16

GDOT Project Manager — Date: 3 AUGUST 2016

Recommendation for approval:

ERIC DUFF*/EKP — State Environmental Administrator — Date: 8/18/2016

FOR CHRISTOPHER RAYMOND*/EKP — State Traffic Engineer — Date: 8/25/2016

BILL DUVALL*/EKP — State Bridge Engineer — Date: 9/8/2016

☐ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).

☒ Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

CINDY VAN DYKE*/EKP — State Transportation Planning Administrator — Date: 8/17/2016

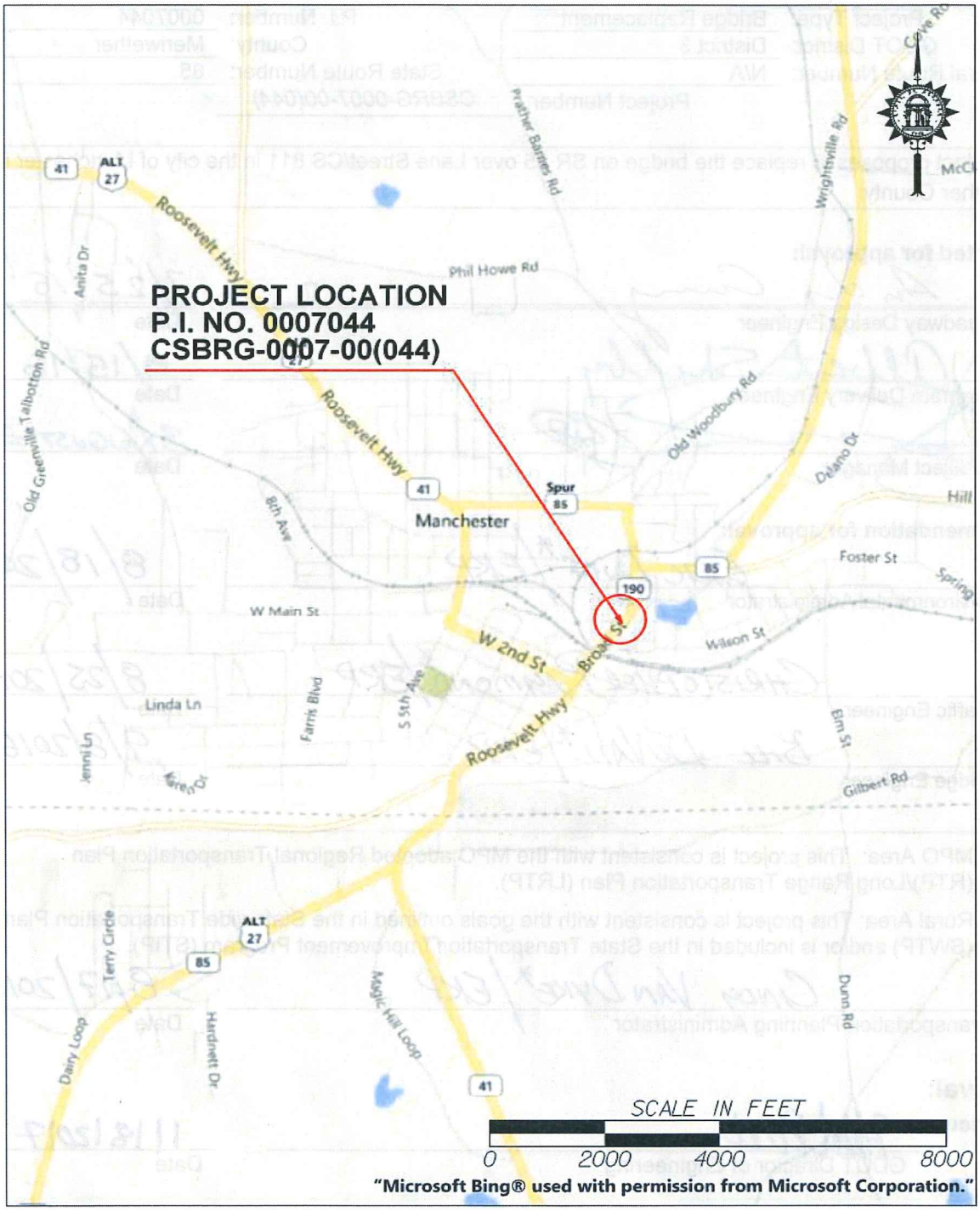
Approval:

Concur: Hial Pittel — GDOT Director of Engineering — Date: 11/8/2017

Approve: Margaret B. Purell — GDOT Chief Engineer — Date: 1/24/17

*- RECOMMENDATION ON FILE

PROJECT LOCATION MAP



PI 0007044/Meriwether County

SR 85 at Lane Street Bridge Replacement

PLANNING & BACKGROUND DATA

Project Justification Statement: This bridge (Structure ID 199-0032-0; SR 85 over Lane Street) was built in 1941. The bridge consists of three spans of steel beams on concrete caps and concrete columns. The bridge was designed using an H-15 vehicle, which is below the current design standards. The overall condition of this bridge would be classified as fair. The deck is in fair condition with minor concrete cracking and efflorescence. The superstructure is in fair condition. The substructure is in fair condition with moderate concrete cracking and spalls. The bridge's sufficiency rating is 46.90. Due to the structural integrity of the bridge, replacement is recommended.

Existing conditions: The existing typical section of SR 85/Broad Street consists of two 12-foot travel lanes, one in each direction, and sidewalk on both sides of the roadway. Additionally, SR 85 consists of Structure ID 199-0032-0 which is a bridge that consists of three spans of steel beams on concrete caps and concrete columns. Currently the beams are 21-inch steel beams. The bridge deck width is 42-ft 2.5-in and the bridge roadway curb to curb clear width is 29.90 feet with 5-foot sidewalks on both sides of the bridge. The total length of the bridge is 138 feet.

Other projects in the area:

- BR000-0005-00(532) PI No. 0005532, SR 85 at CSX railroad in Manchester
  Bridge Replacement
  Completion Date: 09/2016
- PI No. M005138, SR 41 from SR 85 to SR 18
  Resurfacing Project
  Let Date: 3/17/2017
- PI No. M005321, SR 85 Spur from SR 41 to SR 85
  Resurfacing Project
  Let Date: 3/17/2017

MPO: N/A **TIP #:** N/A

Congressional District(s): 3

Federal Oversight: ☐PoDI ☒Exempt ☐State Funded ☐Other

Projected Traffic: AADT 24 HR T: 6.5%
Current Year (2011): 4850 Open Year (2021): 5600 Design Year (2041): 7100
Traffic Projections Performed by: GDOT Office of Planning

Functional Classification (Mainline): Rural Minor Arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:
Warrants met: ☐None ☒Bicycle ☒Pedestrian ☐Transit

Pavement Evaluation and Recommendations
Preliminary Pavement Evaluation Summary Report Required? ☐No ☒Yes
Preliminary Pavement Type Selection Report Required? ☒No ☐Yes
Feasible Pavement Alternatives: ☒HMA ☐PCC ☐HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: This project is located on State Route 85 over Lane Street in Meriwether County, 4.5 miles southeast of Warm Springs, Georgia. The sufficiency rating of the current bridge is 46.90 out of 100. The total length of the project is approximately 528 feet (.1 miles). Proposed is a new 138-ft long by 41-ft 6-in wide concrete bridge over Lane Street that will be reconstructed at the current location, elevation, and roadway centerline. An off-site detour will be utilized to route traffic from SR 85 northbound left onto SR 41/US 27(ALT)/W 2nd Street, then right onto SR 41/US 27(ALT)/S 5th Ave, then right onto SR 85 Spur/Perry Street, then right onto SR 85 Spur/Johnson Ave, then left back on to SR 85/Foster Street. The total detour route distance is 1.8 miles.

Major Structures:

Structure ID	Existing	Proposed
Structure ID 199-0032-0	SR 85 consists of Structure ID 199-0032-0 which is a bridge that consists of three spans of steel beams on concrete caps and concrete columns. Currently the beams are 21" steam beams. The bridge deck width is 42-ft 2.5-in and the roadway curb to curb clear width is 29.90 feet with 5-foot sidewalks on both sides of the bridge. The total length of the bridge is 138 feet. The sufficiency rating of the bridge is 46.90.	The proposed structure is 138-ft long by 41-ft 6-in wide. The includes two 12-ft lanes and 5-ft 6-in sidewalks with a 2-ft border on both sides of the bridge.

Mainline Design Features: SR 85

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2 Lanes	2 Lanes	2 Lanes
- **Lane Width(s)**	**12-ft**	**12-ft**	**Varies 12-ft to 14-ft 6-in**
- **Median Width & Type**	**N/A**	**N/A**	**N/A**
- **Border Area Width**	**Unknown**	**10-ft (2-ft paved, 8-ft unpaved)**	**Varies 10-ft to 16-ft**
- **Outside Shoulder Slope**	~~**Unknown**~~ N/A (KP)	~~**6%**~~ N/A (KP)	~~**2:1 Max**~~ N/A (KP)
- **Inside Shoulder Width**	**N/A**	**N/A**	**N/A**
- **Sidewalks**	**5-ft**	**5-ft**	**5-ft**
- **Auxiliary Lanes**	**N/A**	**N/A**	**N/A**
- **Bike Lanes**	**N/A**	**N/A**	**N/A**
Posted Speed	30 MPH		30 MPH
Design Speed	**Unknown**	**30 MPH**	**30 MPH**
Min Horizontal Curve Radius	**Unknown**	**250-ft**	**Match Existing**
Maximum Superelevation Rate	**Unknown**	**4%**	**Match Existing**
Maximum Grade	**Unknown**	**8%**	**8%**
Access Control	Permit	Permit	Permit
Design Vehicle	H-15	WB-67	WB-67
Pavement Type	Asphalt	Asphalt	Asphalt

Bridge Design Features: SR 85 over Lane Street

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2 Lanes	2 Lanes	2 Lanes
- **Lane Width(s)**	**12-ft**	**12-ft**	**12-ft**
- **Median Width & Type**	**N/A**	**N/A**	**N/A**
- **Border Area Width**	**N/A**	**N/A**	**2-ft Paved-Border**
- **Outside Shoulder Slope**	**N/A**	**N/A**	**N/A**
- **Inside Shoulder Width**	**N/A**	**N/A**	**N/A**
- **Sidewalks**	**5-ft**	**5-ft**	**5-ft 6-in**
- **Auxiliary Lanes**	**N/A**	**N/A**	**N/A**
- **Bike Lanes**	**N/A**	**N/A**	**N/A**
Posted Speed	30 MPH		30 MPH
Design Speed	**Unknown**	**30 MPH**	**30 MPH**
Min Horizontal Curve Radius	**Unknown**	**250-ft**	**Match Existing**
Maximum Superelevation Rate	**Unknown**	**4%**	**Match Existing**
Maximum Grade	**Unknown**	**8%**	**8%**
Access Control	Permit	Permit	Permit
Design Vehicle	H-15	WB-67	WB-67
Pavement Type	Concrete	Concrete	Concrete

Major Interchanges/Intersections: N/A

Lighting required: ☒ No ☐ Yes

The current light fixtures within the project are attached to existing utility poles and are not directly associated with the bridge. Additionally, Bridge Replacement project PI No. 0005532 SR 85 at CSX railroad in Manchester did not include lighting, therefore this project will also not include lighting.

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes
If Yes: Project classified as: ☒ Non-Significant ☐ Significant
TMP Components Anticipated: ☒ TTC

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: Unknown

Design Variances to GDOT Standard Criteria anticipated: Unknown

UTILITY AND PROPERTY

Railroad Involvement: CSX

Utility Involvements:

Electricity	Georgia Power (Distribution)
Gas	City of Manchester
Water	City of Manchester
Sewer	City of Manchester
Telecommunications	AT&T
Telecommunications	Charter Communications

SUE Required: ☐ No ☒Yes

Public Interest Determination Policy and Procedure recommended? ☒ No ☐ Yes

Right-of-Way: Existing width: Varies 150-200 ft. Proposed width: Within 150-200' existing RW
Required Right-of-Way anticipated: ☐ No ☐ Yes ☒ Undetermined
Easements anticipated: ☐ None ☒ Temporary ☒ Permanent ☐ Utility ☐ Other

Anticipated total number of impacted parcels: 4
Displacements anticipated: Businesses: 0
Residences: 0
Other: 0
Total Displacements: 0

Impacts to USACE property anticipated? ☒ No ☐ Yes ☐ Undetermined

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: Area may be historic therefore homes may be under the Environmental Justice classification.

Context Sensitive Solutions Proposed:

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

NEPA: ☐ PCE ☒ CE ☐ EA-FONSI
GEPA*: ☐ Type A ☐ Type B None

Level of Environmental Analysis:

☐ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.

☒ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

MS4 Compliance – Is the project located in an MS4 area? ☒ No ☐ Yes

Is Protected Species water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: CWA Section 404 Permit, NPDES

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
Carbon Monoxide hotspot analysis: ☐ Required ☒ Not Required ☐ TBD

NEPA/GEPA Comments & Information: Categorical Exclusion.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: Concept Meeting held 6/13/2016. See attachments for minutes.
Other coordination to date: Project Coordination Meeting held 3/16/2016

Project Activity	Party Responsible for Performing Task(s)
Concept Development	GDOT – Office of Roadway Design
Design	GDOT – Office of Roadway Design
Right-of-Way Acquisition	GDOT – Office of Right of Way
Utility Coordination (Preconstruction)	GDOT – Office of Utilities
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT – Office of Construction Bidding Administration
Construction Supervision	GDOT – District 3 Construction
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	GDOT – Environmental Services
Environmental Mitigation	GDOT – Environmental Services
Construction Inspection & Materials Testing	GDOT – Materials & Research Office

Project Cost Estimate and Funding Responsibilities:

	PE Activities					
	PE Funding	Section 404 Mitigation	ROW	Reimbursable Utilities	CST*	Total Cost
Funded By	GDOT		GDOT	GDOT	GDOT	$2,202,732
$ Amount	$806,795.36		$159,000	$100,000	$1,136,937 ~~$1,094,104.28~~	~~$2,159,899.64~~
Date of Estimate	5/6/2009		9/29/2014	6/13/2016	10/6/2016	

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

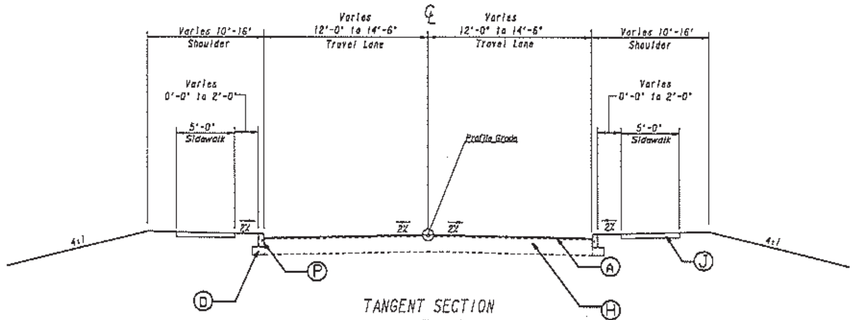
Preferred Alternative: Replace the existing bridge at the existing location and elevation using an offsite detour.			
Estimated Property Impacts:	**None**	**Estimated Total Cost:**	**$2,159,899.64**
Estimated ROW Cost:	**$159,000.00**	**Estimated CST Time:**	**18 Months**
Rationale: This alternative would close the bridge to traffic and provide an off-site detour during construction. The proposed northbound detour would reroute traffic from SR 85/Broad Street left on to SR 41/US 27(ALT)/W 2nd Street, continue right on to SR 41/US 27(ALT)/S 5th Ave, then right onto SR 85 Spur/Perry Street, then right on to SR 85 Spur/Truitt Street, then left back on to SR 85/Foster Street. The proposed detour route would be 1.8 miles in length.			

No-Build Alternative:			
Estimated Property Impacts:	**None**	**Estimated Total Cost:**	**$0.00**
Estimated ROW Cost:	**$0.00**	**Estimated CST Time:**	**None**
Rationale: This alternative would not meet the project justification as the structural integrity of the bridge is insufficient.			

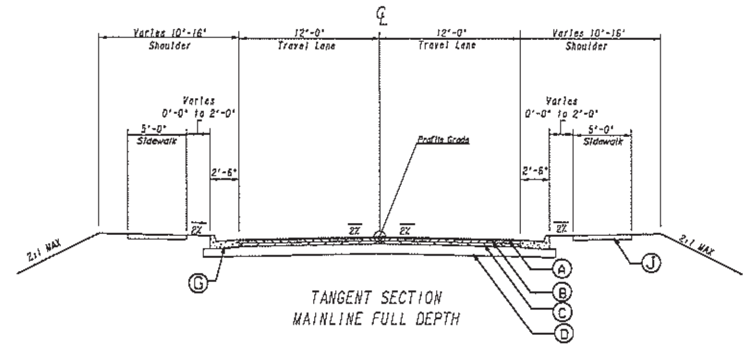
Comments/Additional Information:

LIST OF ATTACHMENTS/SUPPORTING DATA

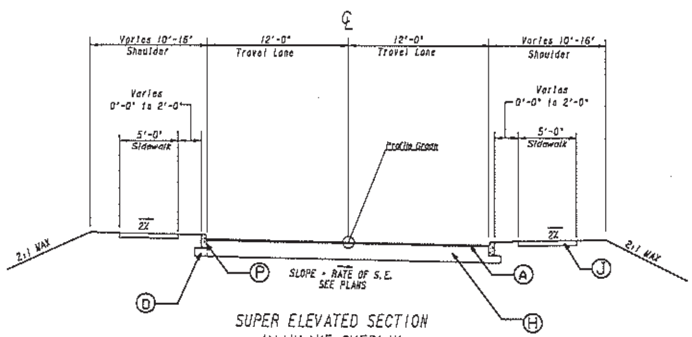
1. Typical sections
2. Detour Map
3. Cost Estimates
    - Construction including Engineering and Inspection
    - Completed Fuel & Asphalt Price Adjustment Forms
    - Preliminary Utility Cost Estimate
    - Preliminary Right of Way Cost Estimate
4. Concept Utility Report
5. Traffic Counts
6. Bridge Inventory Data
7. Concept Team Meeting Sign-In Sheets
    *Please contact the Project Manager for Concept Team Meeting Minutes



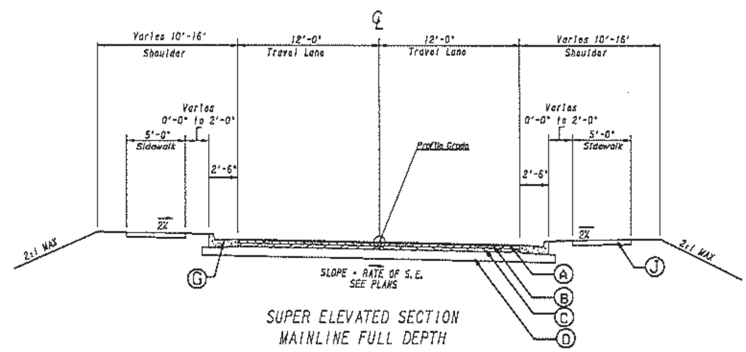
TANGENT SECTION
MAINLINE OVERLAY



TANGENT SECTION
MAINLINE FULL DEPTH



SUPER ELEVATED SECTION
MAINLINE OVERLAY

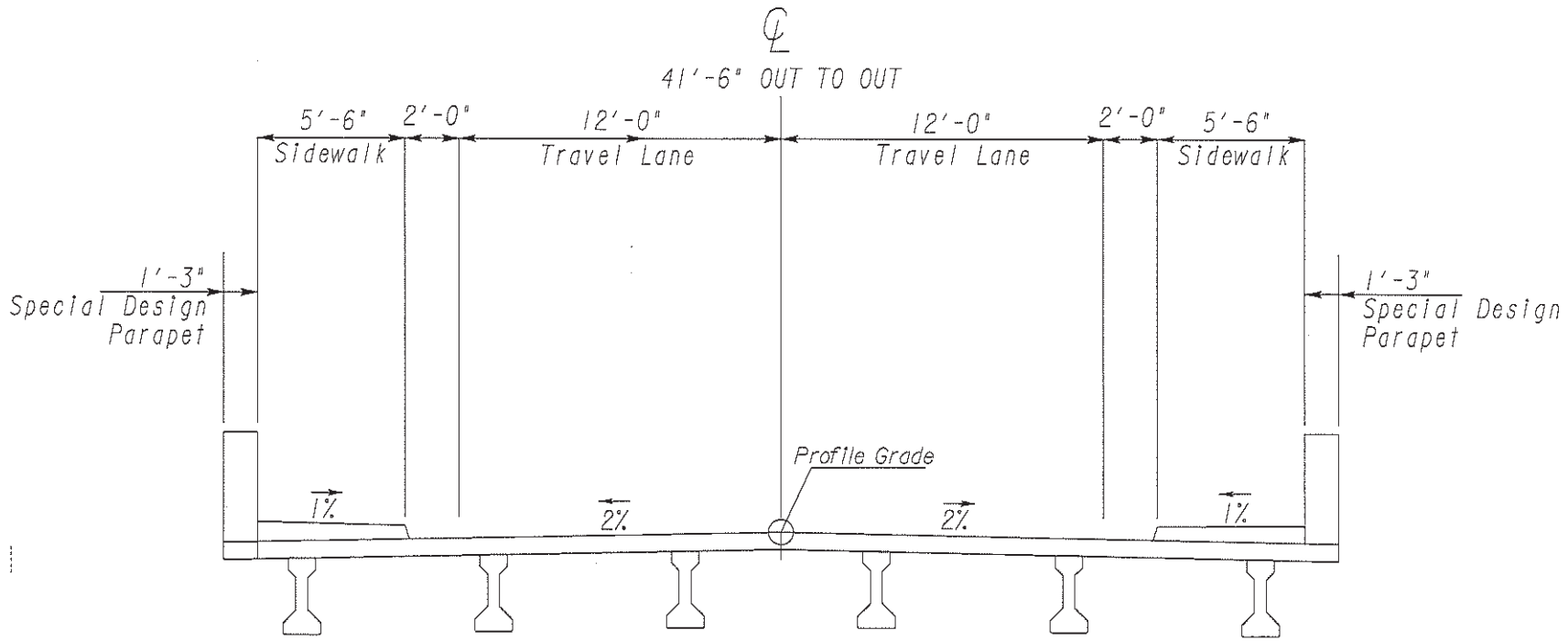


SUPER ELEVATED SECTION
MAINLINE FULL DEPTH

REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, 135 lb/sy, TYPE 2, GP 2 ONLY, INCL BITUM MATL & H LIME
- Ⓑ RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, 220 lb/sy, GP 1 OR 2, INCL BITUM MATL & H LIME
- Ⓒ RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, 440 lb/sy, GP 1 OR 2, INCL BITUM MATL & H LIME
- Ⓓ GRADED AGGREGATE BASE COURSE, 10", INCL MATL
- Ⓔ MILL ASPH CONC PVMT, 1½ IN DEPTH
- Ⓖ 8" x 30" CONC. CURB & GUTTER, GA. STD. 9032 B, TYPE 2
- Ⓗ LEVELING COURSE, VARIABLE DEPTH
- Ⓙ 4" CONC SIDEWALK
- Ⓟ CONCRETE HEADER CURB, 6 INCH, TP 2

REVISION DATES	TYPICAL SECTIONS			
	CHECKED:	DATE:		DRAWING No.
	BACKCHECKED:	DATE:		05-0001
	CORRECTED:	DATE:		
	VERIFIED:	DATE:		



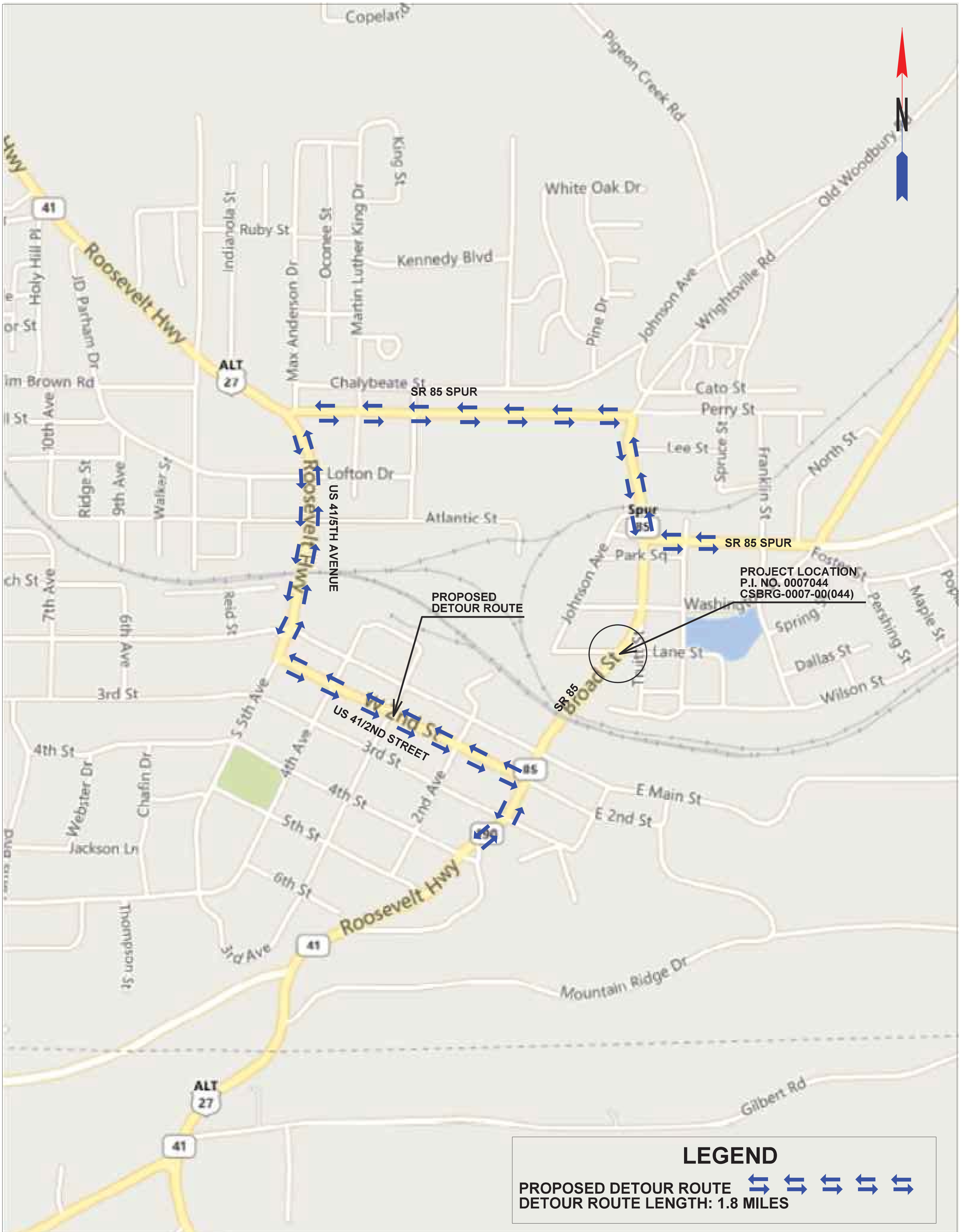
BRIDGE SECTION

REVISION DATES

TYPICAL SECTIONS

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
05-0002


N
SR 85 SPUR
US 41/5TH AVENUE
SR 85 SPUR
PROJECT LOCATION
P.I. NO. 0007044
CSBRG-0007-00(044)
PROPOSED
DETOUR ROUTE
US 41/2ND STREET
SR 85
Roosevelt Hwy
Chalybeate St
Lofton Dr
Atlantic St
Perry St
Cato St
Lee St
Park Sq
Lane St
Broad St
E Main St
E 2nd St
Mountain Ridge Dr
Gilbert Rd
White Oak Dr
Kennedy Blvd
Pigeon Creek Rd
Johnson Ave
Wrightsville Rd
Old Woodbury Rd
LEGEND
PROPOSED DETOUR ROUTE
DETOUR ROUTE LENGTH: 1.8 MILES

Job ID 0007044_CONCEPT

DETAILED COST ESTIMATE

JOB NUMBER: 0007044_CONCEPT **FED/STATE PROJECT NUMBER:** 0007044
SPEC YEAR: 13
DESCRIPTION: SR 85 @ CS 811/LANE STREET IN MANCHESTER **Assigned Control Group:** OFFICE OF ROADWAY DESIG

ITEMS FOR JOB 0007044_CONCEPT

0010 - ROADWAY ITEMS

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.00	LS	$50,000.00000	TRAFFIC CONTROL -	$50,000.00
0010	153-1300	1.00	EA	$81,980.79145	FIELD ENGINEERS OFFICE TP 3	$81,980.79
0015	210-0100	1.00	LS	$250,000.00000	GRADING COMPLETE -	$250,000.00
0020	310-1101	368.00	TN	$28.20394	GR AGGR BASE CRS, INCL MATL	$10,379.05
0030	402-3103	72.00	TN	$69.63928	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	$5,014.03
0035	402-3121	139.00	TN	$85.97145	RECYL AC 25MM SP,GP1/2,BM&HL	$11,950.03
0040	402-3190	70.00	TN	$95.72578	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	$6,700.80
0045	413-0750	208.00	GL	$3.00000	TACK COAT	$624.00
0050	432-0206	134.00	SY	$10.16541	MILL ASPH CONC PVMT/ 1.50 DEP	$1,362.16
0055	441-0104	267.00	SY	$42.94659	CONC SIDEWALK, 4 IN	$11,466.74
0065	634-1200	5.00	EA	$123.68346	RIGHT OF WAY MARKERS	$618.42
0070	433-1000	215.00	SY	$171.72638	REINF CONC APPROACH SLAB	$36,921.17
0220	441-6222	592.00	LF	$19.67958	CONC CURB & GUTTER/ 8X30TP2	$11,650.31
0225	641-1100	84.00	LF	$61.85342	GUARDRAIL, TP T	$5,195.69
0230	641-1200	50.00	LF	$22.13997	GUARDRAIL, TP W	$1,107.00
0235	641-5012	4.00	EA	$1,919.94907	GUARDRAIL ANCHORAGE, TP 12	$7,679.80
ROADWAY ITEMS Total						**$492,649.99**

0020 - BRIDGE REPLACEMENT

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0075	540-1101	1.00	LS	$86,000.00000	REM OF EX BR, STA NO -	$86,000.00
0080	543-9000	1.00	LS	$458,160.00000	CONSTR OF BRIDGE COMPLETE -	$458,160.00
BRIDGE REPLACEMENT Total						**$544,160.00**

0030 - TEMPORARY EROSION CONTROL

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0085	163-0232	1.00	AC	$496.84205	TEMPORARY GRASSING	$496.84
0090	163-0240	3.00	TN	$404.29085	MULCH	$1,212.87
0095	163-0300	2.00	EA	$1,351.83648	CONSTRUCTION EXIT	$2,703.67
0100	163-0550	4.00	EA	$144.41753	CONS & REM INLET SEDIMENT TRAP	$577.67
0105	165-0030	600.00	LF	$0.83195	MAINT OF TEMP SILT FENCE, TP C	$499.17
0110	165-0101	2.00	EA	$476.17333	MAINT OF CONST EXIT	$952.35
0115	165-0105	4.00	EA	$54.56516	MAINT OF INLET SEDIMENT TRAP	$218.26
0120	167-1000	2.00	EA	$233.85116	WATER QUALITY MONITORING AND SAMPLING	$467.70
0125	167-1500	18.00	MO	$409.49741	WATER QUALITY INSPECTIONS	$7,370.95
0130	171-0030	1200.00	LF	$3.20765	TEMPORARY SILT FENCE, TYPE C	$3,849.18
0135	643-8200	340.00	LF	$1.45332	BARRIER FENCE (ORANGE), 4 FT	$494.13
TEMPORARY EROSION CONTROL Total						**$18,842.79**

0040 - PERMANENT EROSION CONTROL

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0140	716-2000	3000.00	SY	$1.13880	EROSION CONTROL MATS, SLOPES	$3,416.40
0145	700-6910	2.00	AC	$855.16030	PERMANENT GRASSING	$1,710.32
0150	700-7000	5.00	TN	$94.39182	AGRICULTURAL LIME	$471.96
0155	700-8000	3.00	TN	$611.03688	FERTILIZER MIXED GRADE	$1,833.11
0160	700-8100	120.00	LB	$3.02300	FERTILIZER NITROGEN CONTENT	$362.76
PERMANENT EROSION CONTROL Total						**$7,794.55**

0050 - DRAINAGE

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0165	550-1180	35.00	LF	$52.25049	STM DR PIPE 18,H 1-10	$1,828.77
0170	668-1100	4.00	EA	$2,273.88269	CATCH BASIN, GP 1	$9,095.53
0240	441-0301	4.00	EA	$1,670.43205	CONC SPILLWAY, TP 1	$6,681.73
0245	603-2181	100.00	SY	$40.65078	STN DUMPED RIP RAP, TP 3, 18	$4,065.08
0250	603-7000	100.00	SY	$4.08945	PLASTIC FILTER FABRIC	$408.95
DRAINAGE Total						**$22,080.06**

0060 - SIGNING & MARKING

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0175	636-1036	18.00	SF	$20.00000	HWY SGN,TP1MAT,REFL SH TP 11	$360.00
0180	636-2090	28.00	LF	$7.89407	GALV STEEL POSTS, TP 9	$221.03
0185	636-1033	5.00	SF	$22.11777	HWY SIGNS, TP1MAT,REFL SH TP 9	$110.59
0190	636-2070	14.00	LF	$8.97577	GALV STEEL POSTS, TP 7	$125.66
0195	653-1501	540.00	LF	$0.77054	THERMO SOLID TRAF ST 5 IN, WHI	$416.09
0200	653-1502	540.00	LF	$0.66668	THERMO SOLID TRAF ST, 5 IN YEL	$360.01
0205	654-1001	12.00	EA	$5.17015	RAISED PVMT MARKERS TP 1	$62.04
0210	657-1085	276.00	LF	$6.86465	PRF PL SD PVT MKG,8,B/W,TP PB	$1,894.64
0215	657-6085	276.00	LF	$6.68077	PRF PL SD PVMT MKG,8,B/Y,TPPB	$1,843.89
SIGNING & MARKING Total						**$5,393.95**

TOTALS FOR JOB 0007044_CONCEPT

ITEMS COST:	$1,090,921.34
COST GROUP COST:	$0.00
ESTIMATED COST:	$1,079,765.58
CONTINGENCY PERCENT:	0.00%
ENGINEERING AND INSPECTION:	5.00%
ESTIMATED COST WITH CONTINGENCY AND E&I:	$1,133,753.86

File Location: Div of Preconstruction > CES

PROJ. NO.		CALL NO.
P.I. NO.	0007044	
DATE	10/20/2016	

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Mar-16	$ 1.671
DIESEL		$ 2.009
LIQUID AC		$ 355.00

Link to Fuel and AC Index:
http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				**2992.65**	**$ 2,992.65**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	568.00	
Monthly Asphalt Cement Price month project let (APL)			$	355.00	
Total Monthly Tonnage of asphalt cement (TMT)				14.05	

ASPHALT	Tons	%AC	AC ton
Leveling	0	5.0%	0
12.5 OGFC	0	5.0%	0
12.5 mm	0	5.0%	0
9.5 mm SP	72	5.0%	3.6
25 mm SP	139	5.0%	6.95
19 mm SP	70	5.0%	3.5
	281		**14.05**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$**	**190.29**	**$ 190.29**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	568.00	
Monthly Asphalt Cement Price month project let (APL)			$	355.00	
Total Monthly Tonnage of asphalt cement (TMT)				0.893380992	

Bitum Tack Gals	gals/ton	tons
208	232.8234	0.89338099

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	568.00	
Monthly Asphalt Cement Price month project let (APL)			$	355.00	
Total Monthly Tonnage of asphalt cement (TMT)				0	

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	0	0.20	0	232.8234	0
Double Surf.Trmt.	0	0.44	0	232.8234	0
Triple Surf. Trmt	0	0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT	**$ 3,182.94**

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: **CSBRG-0007-00(044)** Office: Thomaston
County **Meriwether** Date: June 13, 2016
P.I. # **0007044**

Description: **Bridge replacement on SR 85 at CS 081117/Lane Street in Manchester**

FROM Scott K. Parker, District Utilities Engineer

TO Justin Banks, Project Manager

SUBJECT **PRELIMINARY UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted without a design concept.. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

Utility Owner	Reimbursable	Non-Reimbursable	Estimate Based on
Georgia Power - Distribution	$100,000.00	$0.00	Site Visit / Available Drawings
AT&T	$0.00	$30,000.00	Site Visit / Available Drawings
City of Manchester - Gas	$0.00	$21,000.00	Site Visit / Available Drawings
City of Manchester - Water	$0.00	$54,000.00	Site Visit / Available Drawings
City of Manchester - Sewer	$0.00	$2,000.00	
Charter Communications	$0.00	$2,400.00	
	$0.00	$0.00	
	$0.00	$0.00	
	$0.00	$0.00	
	$0.00	$0.00	
	$0.00	$0.00	
Total 0.00%	$ 100,000.00	$ 109,400.00	
Department Responsibility 100.00%	$ 100,000.00	$ 0.00	
Local Sponsor Responsibility 0.00%	$ 0.00	$ 0.00	PFA Dated N/A with N/A

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Gene McKissick at 706-646-7604.

cc: Yulonda Pride-Foster, State Utilities Preconstruction Engineer
Lee Upkins, State Utilities Office
Adam Smith, District Preconstruction Engineer

Department of Transportation

State of Georgia

Interdepartmental Correspondence

FILE	R/W Cost Estimate	**OFFICE**	Atlanta
		DATE	September 29, 2014
FROM	Phil Copeland, Right of Way Administrator LaShone Alexander, RW Cost Estimator		
TO	Justin Banks, Project Manager		

SUBJECT **Preliminary Right of Way Cost Estimate**
Project: CSBRG-007-00(044) Meriwether County
P.I. No.: 0007044
Description: S.R. 85 @CS081117 Lane Street in Manchester

As per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimates on the above referenced projects.

If you have any questions, please contact LaShone Alexander at One Georgia Center 600 West Parkway Street, NW Atlanta, GA 30308, Right of Way Office at (478) 553-1569 or (478) 232-4045.

`

PC:LA
Attachments
c: File

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 9/29/2014 Project: CSBRG-0007-00-(044)
Revised: County: Meriwether
PI: 0007044
Description: SR85@CS081117 Lane Street in Manchester
Project Termini: Bridge Replacements

Existing ROW: Varies
Parcels: 4 Required ROW: Varies

Land and Improvements		$60,000.00
Proximity Damage	$0.00	
Consequential Damage	$0.00	
Cost to Cures	$0.00	
Trade Fixtures	$0.00	
Improvements	$25,000.00	
Valuation Services		$15,000.00
Legal Services		$40,200.00
Relocation		$8,000.00
Demolition		$0.00
Administrative		$35,500.00
TOTAL ESTIMATED COSTS		$158,700.00
TOTAL ESTIMATED COSTS (ROUNDED)		***$159,000.00***

Preparation Credits	Hours	Signature

Prepared By: Dashone Alexander CG#:286999 09/29/2014 (DATE)
Approved By: Dashone Alexander CG#:286999 09/29/2014 (DATE)

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

Concept Utility Report

Project Number: CSBRG-0007-00(044) **District:** 3

County: Meriwether **Prepared by:** Gene McKissick

P.I. # 0007044 **Date:** 6/3/2016

Project Description: Bridge replacement on SR 85 @ CS 081117/Lane Street in Manchester

The information provided herein has been gathered from Georgia811and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? Yes Level: ☐ A ☒ B ☐ C ☐ D

Public Interest Determination (PID): ☐ Automatic ☐ Mandatory ☐ Consideration ☐ No Use ☒ Exempt

Is a separate utility funding phase recommended? Yes, assuming Ga. Power Co. will be reimbursable.

Existing Facilities: _____

Georgia Power - Distribution -- Electrical

AT&T -- Telecommunications

City of Manchester - Gas

City of Manchester - Water

City of Manchester - Sewer

Potential Project (Schedule/Budget) Impacts: An existing aerial telephone cable is located under the north end of the bridge that will need to be relcoated prior to the demolition of the bridge.

Capital Improvement Projects (Utilities) Anticipated in the Area: None anticipated

Project Specific Recommendations for Avoidance/Mitigation: Pursue early authorization for utility relocations.

Right of Way Coordination: Purchase permanent easements with the right to place utilities

Environmental Coordination: Environmental studies will need to factor in the relocation of utilities.

Additional Remarks: None

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(044), Meriwether County
P.I. # 0007044

OFFICE Planning

DATE May 7, 2014

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Albert Shelby, State Program Delivery Engineer
Attention: Krystal Stovall-Dixon

SUBJECT **Link Volume Traffic** for SR 85 @ CS 081117 LANE STREET IN MANCHESTER.

The Link Volume Traffic is below:

TC # 0175
BUILD = NO BUILD

2011 AADT	4850
2012 DHV	440
2021 AADT	5600
2021 DHV	505
2041 AADT	7100
2041 DHV	640
K	9%
D	55%
T	3.5%
S.U.	3.25%
COMB.	0.25%
24 HOUR T	6.5%
S.U.	4.5%
COMB.	2%

.

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 631-1923.

CLV/AFE

Processed Date:4/12/2016

Parameters: Bridge Serial Num

Bridge Inventory Data Listing

Structure ID:199-0032-0 **Meriwether** **SUFF. RATING: 46.90**

Location & Geography

Structure ID:	199-0032-0
200 Brdge Information:	07
*6A Feature Int: *6B Critical Bridge:	CS 23023 -000.10E
*7A Route No Carried:	SR00085
*7B Facility Carried:	SR 85
9 Location:	IN MANCHESTER
2 Dot District:	4841300000 - D3 District Three Thomaston
207 Year Photo:	2012
*91 Inspection Frequency:	24 Date: 03/19/2014
92A Fract Crit Insp Freq:	0 Date: 02/01/1901
92B Underwater Insp Freq:	00 Date: 02/01/1901
92C Other Spc. Insp Freq:	00 Date: 02/01/1901
* 4 Place Code:	49532
*5 Inventory Route(O/U):	1
Type:	3 - State
Designation:	1- Mainline
Number:	00085
Direction:	0. Not applicable
*16 Latitude:	32.0000- 51.2520 HMMS Prefix:SR
*17 Longtitude:	84.0000- 36.6408 HMMS Suffix:00
	MP: 0.28
98 Border Bridge:	% Shared:00
99 ID Number:	000000000000000
*100 STRAHNET:	0- The Feature is not a STRAHNET route.
12 Base Highway Network:	1
13A LRS Inventory Route:	1991008500
13B Sub Inventory Route:	0.00
*101 Parallel Structure:	N. No parallel structure exists
*102 Direction of Traffic:	2- Two Way
*264 Road Inventory Mile Post:	000.93
*208 Inspection Area:	Area 03 Initials: WBP
Engineer's Initials:	eep
* Location ID No:	199-00085D-000.28N

*104 Highway System:	0- Inventory Route is not on the NHS
*26 Functional Classification:	6- Rural - Minor Arterial
*204 Federal Route Type:	F - Primary. No: 01501
105 Federal Lands Highway:	0. Not applicable
*110 Truck Route:	0
206 School Bus Route:	1
217 Benchmark Elevation:	0000.00
218 Datum:	0- Not Applicable
*19 Bypass Length:	1
*20 Toll:	3- On a Free Road or Non-Highway
*21 Maintanance:	01-State Highway Agency.
*22 Owner:	01-State Highway Agency.
*31 Design Load:	2- H 15
37 Historical Significance:	5- Not eligible for the National Register of Historic Places
205 Congressional District:	003
27 Year Constructed:	1941
106 Year Reconsrtucted:	0
33 Bridge Median	0-None
34 Skew:	36
35 Structure Flared:	No
38 Navigation Control:	N- Bridge is not over water
213 Special Steel Design:	0- Not applicable or other
267 Type of Paint:	5- Waterborne System (Type VI or VII)
*42 Type of Service On:	5-Highway-Pedestrian
Type of Service Under:	1-Highway (with or without pedestrians)
214 Movable Bridge:	0
203 Type Bridge:	A- Spread - O. Concrete M. Steel - O. Concrete
259 Pile Encasement	3
*43 Structure Type Main:	3-Steel 2-Stringer/Multi-Beam or Girder
45 No.Spans Main:	3
44 Structure Type Appr:	0- Other 0- Other
46 No Spans Appr:	0
226 Bridge Curve Horz	1 Vert: 1.00
111 Pier Protection	N - Navigation Control item coded 0, or Feature not a waterway
107 Deck Structure Type:	
108 Wearing Structure Type:	
Membrane Type:	
Deck Protection:	

Signs & Attachments

225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant)
242 Deck Drains:	0- None.
243 Parapet Location:	0- None present.
Height:	0.00
Width:	0.00
238 Curb Height:	1
Curb Material:	1- Concrete.
239 Handrail	1- Concrete. 1- Concrete.
*240 Median Barrier Rail:	0- None.
241 Bridge Median Height:	0
* Bridge Median Width:	0
230 Guardrail Loc. Dir. Rear:	0- None.
Fwrd:	0- None.
Oppo. Dir. Rear:	0- None.
Oppo. Fwrd:	0- None.
244 Aproach Slab	3- Forward and Rear.
224 Retaining Wall:	0- None.
233Posted Speed Limit:	30
236 Warning Sign:	0.00
234 Delineator:	1.00
235 Hazard Boards:	0
237 Utilities Gas:	00- Not Applicable
Water:	00- Not Applicable
Electric:	22- Bottom Right.
Telephone:	00- Not Applicable
Sewer:	00- Not Applicable
247 Lighting Street:	0
Navigation:	0
Aerial:	0- Not a
*248 County Continuity No.:	00

Bridge Inventory Data Listing

Structure ID:199-0032-0

Programming Data

201 Project No: FAGM 159-A (1)
202 Plans Available: 0- No Plans Available.
249 Prop Proj No: BRG-0007-00(044)
250 Approval Status: 0000
251 PI Number: 0007044
252 Contract Date: 02/01/1901
260 Seismic No: 00000
75 Type Work: 34- Widening with deck 1- Work to be done by contract
94 Bridge Imp: Cost: $539
95 Roadway Imp. Cost: $54
96 Total Imp Cost: $809
76 Imp Length: 348
97 Imp Year: 2013
114 Furure ADT: 8025 Year:2031

Hydralic Data

215Waterway Data:
High Water Elev: 0000.0 Year:1900
Flood Elev: 0000.0 Freq:00
Avg Streambed Elev: 0000.0
Drainage Area: 00000
Area of Opening: 000000
113 Scour Critical N. Bridge not over waterway.
216 Water Depth: 00.0 Br.Height:00.0
222 Slope Protection: 0
221Spur Dikes Rear 0 Fwd:0
219 Fender System 0- None.
220 Dolphin:
223 Culvert Cover: 000
Type: 0- Not Applicable
No. Barrels: 0
Width: 0.00 Height:0
Length: 0 Apron:0
*265 U/W Insp. Area 0 Diver:ZZZ
*Location ID No: 199-00085D-000.28N

Measurements:

*29 ADT 5350 Year:2011
109 %Trucks: 1
* 28 Lanes On: 2 Under:2
210 No. Tracks On: 00 Under:00
* 48 Max. Span Length 65
* 49 Structure Length: 138
51 Br. Rwdy. Width 29.90
52 Deck Width: 42.20
* 47 Tot. Horiz. Cl: 30

50 Curb / Sidewalk Width 5.00 / 5.00
32 Approach Rdwy. Width 30
*229 Shoulder Width:
Rear Lt: 0.00 Type: 7 - Rt:0
Fwd. Lt: 0.00 Type: 7 - Rt:0

Pavement Width:
Rear: 30.00 Type: 2- Asphalt.
30.00 Type: 2- Asphalt.
Intersaction Rear: 0 Fwd: 1
36Safety Features Br. Rail: 2- Inspected feature meets acceptable construction date standards.
Transition: 0- Does not meet standards
App. G. Rail: 2- Inspected feature meets acceptable construction date standards.
App. Rail End: 0- Does not meet standards
53 Minimum Cl. Over: 99'99"
Under: H- Highway beneath structure. 17.00'6.00"
*228 Minimum Vertical Cl
Act. Odm Dir:: 99 ' 99"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00'00 "
55 Lateral Undercl. Rt: H- Highway beneath structure. 8.00
56 Lateral Undercl. Lt: 0.00
*10 Max Min Vert Cl: 99' 99" Dir:0
39 Nav Vert Cl: 000 Horiz:0
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main 7.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 4.00

212 Year Last Painted: Sup:2000 Sub:0000

65 Inventory Rating Method: 2-Allowable Stress (AS)
63 Operating Rating Method: 2-Allowable Stress (AS)
66 Inventory Type: 2 - HS loading. Rating: 19
64 Operating Type: 2 - HS loading. Rating: 33
231Calculated Loads:
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 25 0
Type 3s2: 40 0
Timber: 32 0
Piggyback: 40 0
261 H Inventory Rating: 15
262 H Operating Rating 26
67 Structural Evaluation: 4
58 Deck Condition: 6 - Satisfactory Condition
59 Superstructure Condition: 6 - Satisfactory Condition
* 227 Collision Damage:
60A Substructure Condition: 5 - Fair Condition
60B Scour Condition: N - Not Applicable
60C Underwater Condition N - Not Applicable
71 Waterway Adequacy: Not Applicable.
61 Channel Protection Cond.: 10
68 Deck Geometry: 3
69 UnderClr. Horz/Vert: 4
72 Appr. Alignment: 7-Between 8 and 6
62 Culvert: N - Not Applicable

Posting Data

70 Bridge Posting Required 5. Equal to or above legal loads
41 Struct Open, Posted, CL: A. Open, no restriction
* 103 Temporary Structure: 0
232 Posted Loads
H-Modified: 00
HS-Modified: 00
Type 3: 00
Type 3s2: 00
Timber: 00
Piggyback 00
253 Notification Date: 02/01/1901
258 Fed Notify Date: 02/01/1901

Concept Team Meeting Notes (Roadway Design)

Concept Team Meeting held June 13, 2016

- There are conflicting bridge sufficiency ratings between the Project Justification Statement, Project Description and what is shown in the Major Structures table. Verify which is correct and make revisions as necessary.
- Verify all other projects within the area and revise the list if necessary.
- Projected traffic projects were performed by GDOT Planning as opposed to Traffic Operations.
- Revise the pavement evaluation section to indicate that a PTS is not required.
- Verify if the Bridge Design Features table is needed for the CR and remove if not needed.
- The PM should verify if project needs lighting and facilitate necessary coordination.
- Revise the need for TMP to state “yes,” but maintain the classification of non-significant.
- Revise context sensitive solutions section to “yes” as the bridge is within a historic district and is eligible.
- Additional utilities that should be listed are AT&T, Charter and City on Manchester Sewer.
- Revise “Party Responsible for Performing Tasks” table to include the contractor along with D3 construction for detours.
- Verify the right of way cost estimate and revise the reimbursable utilities estimate to $100,000.
- Revise the estimated construction time for the preferred alternate to 12 months.
- Ensure that the utility and right of way cost estimates are added to the report upon receiving them.

Name	org	Ph. #	email
Todd Mathison	DOT ROW	706 646 7568	tmathison@dot.ga.gov
Samuel Summers	City of Manchester	706-741-5287	Utility.director@Manchester-GA.GOV
Doug Westberry	City of Manchester	706 846-3141	manager@manchester-GA:GOV
~~Lauren Bootwright~~	THREE RIVERS RC	678-692-0570	LBOATWRIGHT@THREERIVERSRC.GOV
Danny Miller	GDOT Const.	706-845-4115	dmiller@dot.ga.gov
Dan Woods	D3-T.O.	706-646-7588	dwoods@dot.ga.gov
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Gene McKissick	CONSULTANT- GDOT D3 UTILITIES	706-646-7604	gmckissick@dot.ga.gov

SIGN-IN SHEET 0007044 MERWETHER

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